Page 1

Item ID: Revision ID: Item Name:	D3391-023 Mid Tube Ass	sembly			Accept	*N900	040	100	)*	Setup	Start Stop	*N: *N!	S1*
Start Date: Required Date: Reference:	3/7/2014 : 3/14/2014		ty: 1.00 ety: 1.00	*1* *1*	•	Cust Item :	D:						. 17
Approvals:	Process Pla	ın:	H	Date: <u>/// 63 - 7</u>	Tooling: SPC (Y/N):		ate:			Run	Start Stop	^IVI	R1* R2*
Sequence ID/ Work Center I	D	Operation Descript			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Reje Qty		Reject Number	Insp. Stamp
Draw Nbr	Rev	vision Nbr			,					.,			
D3391	I				.7 s.	•		•					
100					0.00	-				<del></del>			
*100* Skidtubes Skidtubes			2-Drill pilesaddle hol 3-Open sa "J" 4-Remove 5-Remove 6-Deburr 7-Drill #3( paint mark ***DO NO	to finish length as per Dwg ot holes using DT8796 (Do ne on one side only as per Dw ddles and GHW holes to Ø0 .030" from Fwd indexing R indexing ridge on Fwd & A D pilot holes using wearplate ter, DT DRILL HOLES #3-19-20 carplate holes of D3391-023 as per Dwg D3391	not drill "B" holes) and dr or D3391  .375" exept for fwd saddle  idge as per Dwg D3391  ft end of skidtube as per I  Jig DT8217 Identify Ø0.2  DFROM FWD END OF J	e hole of detail  Dwg D3391  250" holes with			- D	 K 14	/o4/	/04 ·-	
*			9-Open we (20 holes)	earplate holes of D3391-023 as per Dwg D3391 DT OPEN 2 MOST FWD W	•	I-H to Ø0.297"	•					, sale	<u>**</u>

DQA:	Date:											• •	
						<b>WORK ORDER NON</b>	-C(	ONFO	RMANCE / UPDATE				<sup>2</sup> ART
QA Closed:			Date:							Wor	k Order up	odate only	PACE
Work Orde	er:					DISPOSITION			AGAINST	DEPA	ARTMENT	/PROCESS	, J
Part N						Rework Scrap Use-as-is Suspected Unapproved			Skid-tube Crosstube Machining Small Fab moforming Finishing Large Fab Composite			Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				,	Desci	ription of work order update		Initial	Action		Sign &		
Cause		Date	Step	Qty		or non-conformance	Cr	nief Eng	i e		Date	Verification	QC Inspector
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved			•	-				••					
	<u> </u>						FA	ULT CA	TEGORY	1			
Landi	ng Gear	•				General				-			
	Landing Gear  Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Inspection Strip in Tube				Bend BOM/Route Broken/Damage/Defect Burrs Contamination Countersink Cut Too Short Drawing		Grain Hardwa Inspect Instruct	ion Incomplete/Unqualified tions Incomplete/Unclear gned/off center eled	O Pa	utside Dimover/Under incorrect art Incorrect art Lost/Mis art Moved ositioned Wower Loss/S	tolerance et ssing Vrong	Pressure/Forced Set-up Temperature/Cure Weld Wrong Stock Pulled Other	
		rks/Cha				Drill Holes		Off-set		_		<u> </u>	
	_		quence			Finish		1	Calibration	_			
	Wa	ve/Twi	st in Tub	e		Fit/Function		Out of	Sequence				

H:/FORMS/Quality Assurance\approved QA/NCRWO RevH

### \*114512\*

Page 2

Friday, March	07, 2014 9:1	9:18 AM		1 1 6	+. )					
Item ID: Revision ID:	D33,91-023			Accept	*N900040	1100*	Setup	Start	*N:	S1*
Item Name:	Mid Tube As	ssembly						Stop	*N	S2*
Start Date:	3/7/2014	Start Qty: 1.00	*1*	•	Cust Item ID:					
Required Date Reference:	e: 3/14/2014	Req'd Qty: 1.00	*1*	•	Customer:					
Approvals:	Process Pl	lan:		Tooling:	Date:		Run	Start	*N	R1*
1	QC:		Date:	<b>SPC</b> (Y/N):	Date:			Stop	*N	R2*
Sequence ID/ Work Center	ID	Operation Description 10-Open .3	75" holes to .438" ***	Set Up/ Run Hours do not open fwd saddle holes	Tool ID Tool # DO 14 /04 /04	F Plan Acc Code Qty		-	Reject Number	Insp. Stamp
.		12- Transfe remaining f dia hole, us tranfer drill	or drill one fwd saddle fwd saddle holes using ing t-pins and clicos to	hole only to .188" dia, transf DT 8149 locating from prev o ensure perfect allingment, o 1-023/-021 to 0.438" dia. in	iusly drill .188" open up previusly					
İ			OT8217, locating from oles into D3391-021.	two previusly drilled holes,	drill remaining					
· : }			g from two fwd wearp les in D3391-021 usir	olate holes in D3391-023 drill ng DT8937	remaining 6					
		15- Open 1	0 wearplate holes in D	3391-021 to 0.297" dia.			)	•	. <i>j</i> .	
		16- insert I	03391-021 into D3391	-23	)	<b>Y</b>	ノノ	4-	2/-	- /
		17 insert T	nine into first and thi	rd frud goddlo bolog	/	- 11		•	,	•

20-Deburr and blow out all chips from inside tube, scribe batch # in D3391-023 at aft end.

18- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500"

19- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499".

as per

1

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T.V	
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3.0	

QA:	Date:

#### **WORK ORDER NON-CONFORMANCE / UPDATE**

DART
A E P O S P A C E

QA Closed:			Date:			WORK ORDER HOR	Work Order update only								AEROSPACE
Work Orde	er:					DISPOSITION	AGAINST DEPARTMENT/PROCESS								
Part N	. No					Rework Scrap Use-as-is			Skid-tube Machining noforming	Crosstube Small Fab Finishing	Prod. Eng. Coo				Engineering Quality Other
NCR N	NO.					Suspected Unapproved	<u> </u>		Large Fab	Composite			Supplier		
Root				. ,	Desc	ription of work order update	ı	nitial	Acti	ion		Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	iption		Date	Verification	<u> </u>	QC Inspector
Design Doc/Data															
Equip/Tooling															
Handling/Pre	$\Box$														
Material	Щ														
Operator													¢- <b>₩</b>		
Offset/Setup											]		-		
Process	]														
Supplier															
Training										•					
Transport															
Unapproved												,			
							FAI	ULT CAT	TEGORY						
Landir	$\overline{}$					General		1 .		ſ	_		ſ	_	
	-	Bending			_	Bend		•	rogram			Outside Dim	<u> </u>	_	ressure/Forced
\		Centre No	ot Concer	ntric		BOM/Route	<u> </u>	Grain				Over/Under	1		et-up
		Cracks			<u> </u>	Broken/Damage/Defect		Hardwa			$\dashv$	Part Incorred		_	emperature/Cure
		Crimp/Kir	nk/Ripple	/Wave	_	Burrs	<u> </u>	`	ion Incomplete/Un	· · · · · · · · · · · · · · · · · · ·	-	Part Lost/Mi	ssing	_	/eld
		Cuffs Contamination					•	ions Incomplete/U	Inclear		Part Moved			rong Stock Pulled	
		Crushing Countersink					1	ned/off center	l l	_	Positioned ۷	ı			
	Ш	Heat Treat Cut Too Short				Mislabe				Power Loss/	Surge	0	ther		
-	Ш	Inspection Strip in Tube Drawing			Misread										
	Marks/Chatter Drill Holes			Off-set											
	Turning Sequence Finish				Out of Calibration										
		Wave/Twist in Tube Fit/Function						Out of S	Sequence						

Page 3

Friday, March 07, 2014 9:19:18 AM D3391-023 Accept Item ID: \*N900040100\* Setup Start **Revision ID:** Stop Mid Tube Assembly **Item Name:** \*1\* Start Date: Start Qty: 1.00 3/7/2014 **Cust Item ID: Required Date: 3/14/2014** Req'd Qty: 1.00 \*1\* **Customer:** Reference: Run Start Process Plan: Date: **Tooling: Approvals:** Date: Stop Date:\_\_\_\_\_ SPC (Y/N): QC: Date: Sequence ID/ Reject Operation Set Up/ Tool ID Tool # Plan Accept Reject Insp. Number Stamp **Work Center ID Description** Code Oty Oty **Run Hours** 110 QC5- Inspect part completeness to step on W/O 0.00 DAS \*110\* BO-MON (D 0.00 Memo Quality Control 120 Chemical Conversion Coat per QSI005 4.1 0.00 \*120\* HandFinish 0.00 Memo Hand Finishing 130 QC7-Inspect Chemical Conversion Coat 0.00 \*120\* QC. 0.00 Memo Quality Control

DQA:	_	Date:													
QA Closed:		Date:			WORK ORDER NON-	-CC	ONFO	RMANCE / UP		Vork Order u	odate only	AEROSPACE			
					DISPOSITION					EPARTMENT	· · · · · · · · · · · · · · · · · · ·				
Work Orde	er:				DISPOSITION				AGAINST D	EPAKTIVIENT	/PROCE33				
					Rework			Skid-tube	Crosstube		Water Jet	Engineering			
Part N	lo				Scrap			Machining	Small Fab		d. Eng. Coor.	Quality			
					Use-as-is		Therr	noforming	Finishing	Rec/Sto	re/Packaging	Other			
NCR N	No				Suspected Unapproved			Large Fab	Composite		Supplier				
Root				Desci	ription of work order update	Initial		Action		Sign &	·				
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector			
Design											\.				
Doc/Data											,	'			
Equip/Tooling															
Handling/Pre															
Material															
Operator															
Offset/Setup	<u>.  </u>									}					
Process															
Supplier							•								
Training					,		:								
Transport	_														
Unapproved								L							
		*				FAL	JLT CA	TEGORY		····					
Landir	ng Gear				General	_	·				. –	¬-			
	Bendin	-		<u> </u>	Bend	-	1	Program	·	Outside Dim	<del> </del>	Pressure/Forced			
		Not Conce	ntric		BOM/Route	1	Grain		-	Over/Under	<b>—</b>	Set-up			
	Cracks		6		Broken/Damage/Defect	-	Hardwa			Part Incorre	<del> </del>	Temperature/Cure			
		Kink/Ripple	e/Wave		Burrs	-	· ·	ion Incomplete/Und	·	Part Lost/Mi	ssing	Weld			
	Cuffs			-	Contamination	٠	l	tions Incomplete/Ur	nciear	Part Moved	L	Wrong Stock Pulled			
	Crushir				Countersink	-		gned/off center	_	Positioned V		Jothan			
	Heat Treat Inspection Strip in Tube			Cut Too Short	$\vdash$	Mislabe			Power Loss/	Surge	Other				
			eaur		Drawing	-	Misrea								
		Chatter		-	Drill Holes	-	Off-set								
		Sequence		-	Finish	$\vdash$	l .	Calibration							
	Wave/Twist in Tube		L_	Fit/Function		Out of :	Sequence								

150

QC5- Inspect part completeness to step on W/O

batch#: 728026

NOTE: ENSURE WEB IS INSERTED IN AFT END OF TUBE

0.00

\*150\*

QC

Memo

0.00

**Quality Control** 

DQA:			Date:												
			<b>5</b> .			WORK ORDER NON-	-C(	ONFO	RMANCE / UPDATE				AEROSPACE		
QA Closed:			Date:					<del>r</del>		W	ork Order up	odate only	<u>.</u>		
Work Orde	er:					DISPOSITION			AGAINST	DE	PARTMENT	/PROCESS			
	_					Rework			Skid-tube Crosstube	Г	]	Water Jet	Engineering		
Part N	lo.					Scrap			Machining Small Fab	_	Pro	d. Eng. Coor.	Quality		
	-					Use-as-is			moforming Finishing		4	re/Packaging	Other		
NCR N	lo					Suspected Unapproved			Large Fab Composite		Supplier				
Root	T			,	Desci	ription of work order update		l Initial	Action		Sign &		<u> </u>		
Cause		Date	Step	Qty		or non-conformance		nief Eng			Date	Verification	QC Inspector		
Design	$\neg$			- 7				· · · · · · · · · · · · · · · · · · ·							
Doc/Data	$\neg$														
Equip/Tooling	$\neg$														
Handling/Pre	re														
Material															
Operator															
Offset/Setup	$\neg$														
Process															
Supplier							ŀ								
Training				ľ											
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Unapproved															
ψ.; 69:ξ*		_		`		·	FA	ULT CA	TEGORY						
Landi	ng G	ear			٠. ــــــــــــــــــــــــــــــــــــ	General		,			7	_	_		
į	[	Bending				Bend	<u> </u>	1	Program	lacksquare	Outside Dim	<u> </u>	Pressure/Forced		
	(	Centre No	t Concer	ntric		BOM/Route		Grain			Over/Under	<b>⊢</b>	Set-up		
	(	Cracks				Broken/Damage/Defect		Hardw		L	Part Incorre	<u> </u>	Temperature/Cure		
	Ц'	Crimp/Kin	k/Ripple	/Wave		Burrs	_	- '	ion Incomplete/Unqualified	L	Part Lost/Mi	issing	Weld		
	Cuffs			Contamination		-1	tions Incomplete/Unclear		Part Moved	L	Wrong Stock Pulled				
	_	Crushing				Countersink		- 1	gned/off center		Positioned V		<del>-</del> 1 .		
	Heat Treat			Cut Too Short		Mislab		L	Power Loss/	Surge	Other				
	Inspection Strip in Tube			Drawing	_	Misrea									
	-	Marks/Ch				Drill Holes	_	Off-set							
	Turning Sequence			_	Finish		4	Calibration		.gs.					
	Wave/Twist in Tube				Fit/Function	<u> </u>	Out of	Sequence							

Page 5

riady, murch	07, 2014 9.15	9.19 AM									
tem ID: Revision ID:	D3391-023	·		Accept	*N900	040100	<b>)*</b> s	Setup Star	171	S1*	
tem Name:	Mid Tube Ass	sembly						Sto	*N	S2*	
Start Date:	3/7/2014	Start Qty: 1.00	*1*		Cust Item	ID:					
Required Date	: 3/14/2014	<b>Req'd Qty:</b> 1.00	*1*		Customer:						
Reference:			•					_			
Approvals:	Process Pla	an:	Date:	Tooling:	D	ate:	R	Run Star	^IV	R1*	
·	QC:		Date:	<b>SPC</b> (Y/N):	D	ate:		Sto	*N	R2*	
Sequence ID/ Work Center 1	TD .	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
*160*		Skidtubes		0.00							
Skidtubes		Memo		0.00						<u> </u>	
Skidtubes		1-Weld cros 2-grind wel	ssbolt spacer as per dwg d flush	D3391 & QSI 004 A	R 128385	D BE14-0	4-10				
!				3/	"/						
170		QC10- Inspect visual pe	er QSI004- ground welds	0.00	1/n						
*170* oc		Memo		0.00	V.V.				- <del>-</del>		
Quality Control		меню		0.00							
1					. 🗘						
180		QC5- Inspect part comp	oleteness to step on W/O	0.00	el i		1				
*1 ጸበ*				la r	luln		-				
QC		Memo		0.00	(1)(1)		-				
Quality Control											

DQA:		Date	:		WORK ORDER NON-CONFORMANCE / UPDATE										
QA Closed:		Date	:		WORK ORDER NON-	-C(	JNFO	RMANCE / UP		Vork Order up	odate only	$\Box$	AEROSPACE		
					DISPOSITION				•	EPARTMENT	1				
Work Orde	er:	· · · · · · · · · · · · · · · · · · ·				,			_			<del></del>	· 1		
Part N	No				Rework Scrap			Skid-tube Machining	Crosstube Small Fab	_	Water Jet d. Eng. Coor.		Engineering Quality		
NCR 1	No	<u>.</u>			Use-as-is Suspected Unapproved		inerr	noforming Large Fab	Finishing Composite	. Rec/Stol	re/Packaging Supplier	_	Other		
Root				Desci	ription of work order update	1	nitial	Acti	on	Sign &					
Cause	Dat	e Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	n	QC Inspector		
Design							<del></del>								
Doc/Data								j							
Equip/Tooling															
Handling/Pre		j													
Material															
Operator															
Offset/Setup															
Process															
Supplier					<del>-</del>										
Training															
Transport								,		-					
Unapproved								:					·		
						FAI	ULT CA	TEGORY			· .				
Landi	ng Gear				General		•			<b>-</b>	-				
	Bendi	ng			Bend		Folio/F	Program		Outside Dim	ensions	''	Pressure/Forced		
	Centro	Not Conce	entric		BOM/Route		Grain			Over/Under	tolerance	_	Set-up		
	Crack	;			Broken/Damage/Defect		Hardwa	are	L	Part Incorre	ct		Temperature/Cure		
	Crimp	/Kink/Rippl	e/Wave		Burrs		Inspect	ion Incomplete/Un	qualified	Part Lost/Mi	_	_	Weld		
	Cuffs				Contamination		Instruc	tions Incomplete/U	nclear	Part Moved			Wrong Stock Pulled		
	· Crush	_			Countersink		Misali	gned/off center		Positioned V	Vrong				
	Heat <sup>-</sup>	reat			Cut Too Short		Mislabe	eled		Power Loss/	Surge		Other		
	Inspection Strip in Tube			Drawing		Misrea	d								
	Marks	/Chatter			Drill Holes		Off-set								
	Turnir	ng Sequence	9		Finish		Out of	Calibration		4					
	Wave/Twist in Tube			Fit/Function		Out of	Sequence								

Work Ord Friday, March			" 1 1 Δ ¬ 1 - ¬ · · ·										
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube Ass	embly		Accept	*N900	<b>04</b> 0	100	)*	Setup	Start Stop		S1*	•
Start Date: Required Date Reference:	3/7/2014 :: 3/14/2014	Start Qty: 1.00 Req'd Qty: 1.00	*1 *1		Cust Item I Customer:	D:		÷					
Approvals:	Process Pla	ın:	Date:	Tooling: SPC (Y/N):		ate:			Run	Start Stop	*N *N	R1* R2*	•
Sequence ID/ Work Center I  185  *195* HandFinish Hand Finishing	ID	Operation Description Pressure Wash per QSI00  Memo AND REALC	5 4.3 DDINE AS PER P	Set Up/ Run Hours 0.00 0.00	Tool ID	Tool#	Plan Code	Accep Qty	Qt	y	Reject Number	Insp. Stamp	
190 <b>*100*</b> Powdercoat Powder Coating		White Gloss(Ref.4.3.5.1)  Memo  START TIM  OVEN TEM  FINISH TIM	e: <u>///3/</u> Perature;	0.00 0.00				_/_	\$	<u> </u>   <u> </u>	1-7-16		DAS 34

200

QC3- Inspect Part Finish

0.00

\*200\*

Quality Control

Memo

0.00

DQA:	Date:					•								***	A DT
OA Classida			Data			WORK ORDER NON	-C(	ONFO	RMANCE / UI		· • • • • • •		. : 		AEROSPACE
QA Closed:			Date:		-						work O	raer u	odate only		,
Work Orde	er:					DISPOSITION			٠	AGAINST	DEPART	MENT	/PROCESS		
		-			_	Rework	1		Skid-tube	Crosstube			Water Jet	$\neg$	Engineering
Part N	Ю.					Scrap		Machining Small Fab				Prod. Eng. Coor.			Quality
						Use-as-is						Other			
NCR No.					Suspected Unapproved	]		Large Fab	Composite			Supplier			
Root	-				Descr	ription of work order update	 	nitial	Act	ion	Sig	Sign &			·
Cause		Date	Step	Qty		or non-conformance	1	ief Eng		iption	_ I	ate	Verification		QC Inspector
Design														1	- · · · · · · · · · · · · · · · · · · ·
Doc/Data							l								
Equip/Tooling															·
Handling/Pre										•					
Material															
Operator															
Offset/Setup			i											ı	
Process															
Supplier															•
Training															
Transport														-	
Unapproved							<u> </u>								
							FA	ULT CA	TEGORY						
Landi	_					General	_	1		г			г		_
	$\boldsymbol{\dashv}$	ending		•		Bend		1	Program		_		ensions	_	Pressure/Forced
	-		t Concer	ntric		BOM/Route		Grain					tolerance	-	Set-up
a-1		racks				Broken/Damage/Defect		Hardwa			<del></del> -	Incorre	<del> -</del>	_	Temperature/Cure
\$0. (%)			ık/Ripple	/Wave		Burrs	<u> </u>	1	ion Incomplete/Ur	<b> </b>	_	Lost/M	F	_	Weld
		uffs			ļ	Contamination	_	1	tions Incomplete/L	Jnclear		Moved	L		Wrong Stock Pulled
	_	rushing			-	Countersink	<u> </u>	1	gned/off center	}	_	tioned \		_	
	_	eat Trea			H	Cut Too Short		Mislabe		Ĺ	Pow	er Loss/	'Surge		Other
		•	Strip in	Tube		Drawing	_	Misrea							
	_	1arks/Ch			-	Drill Holes	_	Off-set							
			equence		<u> </u>	Finish	_	1	Calibration -				-		
	Wave/Twist in Tube			Fit/Function	1	Out of:	Sequence								

	der ID 11 207, 2014 9.19	I		*11	4513*
Item ID: Revision ID: Item Name:	D3391-023  Mid Tube Ass	sembly		Accept	*N900040100*
Start Date: Required Dat Reference:	3/7/2014 e: 3/14/2014	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:
Approvals:	Process Pla	ın:	Date:	Tooling:	Date:

QC:	Date	: SPC (Y/N):	<b>D</b>	ate:			Stop *NR2*			
Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
230		0.00					,	. 0	1 (	
*230* HandFinish	HandFinishing	0.00				14	<u>d</u>	) <u>Jel</u>	3/20/18	
Hand Finishing	<b>Memo</b> 1- press fit D3591-1 s	0.00 pacers using DT9416 starting from 0.500" side	•				(			
	2-Install Inserts as per	Dwg							,	

240 QC5- Inspect part completeness to step on W/O \*240\*

Memo

0.00

Setup Start

Run

Stop

Quality Control

Identify as per dwg & Stock Location (U)

0.00 D412-747-013/13/17/94

\*250\*

Packaging

Memo

0.00

1 Il WUZ/21

Packaging

250

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\*NS2\*

DQA:			Date:			MODE ODDED NON	cc	ONICO	DNAANCE / LIDDATE				DART
QA Closed:			Date:			WORK ORDER NON-		JINFO	RIVIANCE / OPDATE	W	ork Order up	odate only	AEROSPACE *
Mark Orde	~~.					DISPOSITION			AGAII	NST DE	PARTMENT	/PROCESS	
Work Orde	٠٠. <u></u>					Davis di [			Chief Author Connects	Mater let	7 Fasinaarina∏		
Part N	۱o					Rework Scrap		Skid-tube Crosstube Machining Small Fab			4	Water Jet d. Eng. Coor.	Engineering Quality
NCR N	No				<del></del>	Use-as-is Thermoforming Suspected Unapproved Large Fab			~ <u>~</u>	~ <del> </del>	Rec/Stor	re/Packaging Supplier	Other
Root					Descr	ription of work order update	n of work order update   Initial   Action   Sign &		Sign &		٠.		
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
Design													
Doc/Data													
Equip/Tooling													;
Handling/Pre													
Material													
Operator											:		
Offset/Setup					•								
Process						٠.							
Supplier						·	·					•	
Training													
Transport													
Unapproved													
	·		,	<del></del>			FAI	ULT CA	TEGORY				
Landi	ng Gea	ır	•			General							
	Ве	nding				Bend		Folio/F	Program		Outside Dim	ensions	Pressure/Forced
	Ce	ntre No	t Concer	ntric		BOM/Route		Grain			Over/Under	tolerance	Set-up
	Cr	acks				Broken/Damage/Defect		Hardwa	are		Part Incorred	ct	Temperature/Cure
,	Cr	imp/Kin	k/Ripple	/Wave		Burrs		Inspect	ion Incomplete/Unqualified		Part Lost/Mi	ssing	Weld
	Ċı	ıffs				Contamination		Instruct	tions Incomplete/Unclear		Part Moved		Wrong Stock Pulled
	Cr	ushing				Countersink		Misali	gned/off center		Positioned V	Vrong	
	H€	eat Trea	t			Cut Too Short		Mislabe	eled		Power Loss/	Surge	Other
	ln:	spection	Strip in	Tube		Drawing .		Misrea	d <sup>T</sup>			* -	
	М	arks/Ch	atter			Drill Holes		Off-set				27 kg	• • • • • • • • • • • • • • • • • • •
	Tu	rning Se	equence			Finish		Out of	Calibration				
	Wave/Twist in Tube				Fit/Function	Out of Sequence							

Page 8

Friday, March	07, 2014 9:19	9:19 AM											
Item ID: D3391-023 Revision ID:				Accept	*N900	100	)*	Setup	Start	*N			
Item Name:	Mid Tube As	sembly								Stop	*N	S2*	
Start Date:	3/7/2014	Start Qty: 1.00	*1*		Cust Item I	D:							
Required Date	e: 3/14/2014	<b>Req'd Qty:</b> 1.00	*1*		<b>Customer:</b>								
Reference:													
Approvals:	Process Plan:		Date:	Tooling:	Date:				Run	Start	*N	R1*	
	QC:		Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*	
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp	
260		QC21- Final Inspection	Work Order Release	0.00						. 1	1	2,0	i
*260*		Memo		0.00					14	47	122	- <del>-                                  </del>	<b>-</b>
Quality Control											J	MF	Δ

14-7-2

DQA:			Date:			WORK ORDER NON	<b>\</b> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ART							
QA Closed:			Date:			WORK ORDER NON-	-((	JINFO	KIVIAINCE / UI		Work O	rder u	odate only	$\neg \qquad ^{AE}$	ROSPACE
Work Orde	or.					DISPOSITION				AGAINST I	DEPART	MENT	/PROCESS		
	Part No.					Rework Scrap		Skid-tube Crosstube  Machining Small Fab				Pro	Water Jet d. Eng. Coor.	Engine	ering lality
NCR No.				<del></del> :	Use-as-is Thermoforming Finishing Suspected Unapproved Large Fab Composite			R	Rec/Store/Packaging Supplier			Other			
Root				·	Desci	cription of work order update		nitial	Act	ion	Sig	Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Description		D	ate	Verification	QC In	spector
Design					,										
Doc/Data															
Equip/Tooling														•	
Handling/Pre															
Material															
Operator						:					- [				
Offset/Setup								-							
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Supplier															
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Transport						-									
Unapproved															
						FAI	ULT CAT	regory							
Landi	ng Ge	ar				General	_			-			_	_	
	В	ending				Bend	$oxed{oxed}$	Folio/F	rogram		<b></b> i		ensions	Pressure/	Forced
		entre No	t Concer	ntric		BOM/Route	$oxed{oxed}$	Grain			Over	/Under	tolerance	Set-up	
:		racks				Broken/Damage/Defect		Hardwa	re	1	Part	Incorre	ct	Temperat	ure/Cure
	C	rimp/Kin	k/Ripple	/Wave		Burrs	L	Inspect	ion Incomplete/Un	nqualified	Part	Lost/M	issing	Weld	
	C	uffs				Contamination		Instruct	ions Incomplete/U	Inclear	Part	Moved		Wrong Sto	ock Pulled
	· c	rushing				Countersink		Misalig	ned/off center	Ļ	Posit	ioned V	Vrong		
•	Н	eat Trea	t			Cut Too Short		Mislabe	eled	[	Powe	er Loss/	'Surge	Other	
	lr	spection	Strip in	Tube		Drawing		Misread	d						
	N	1arks/Ch	atter			Drill Holes		Off-set							
	T	urning Se	equence			Finish		Out of (	Calibration						
	Wave/Twist in Tube			e		Fit/Function	Out of Sequence								

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Friday, March 07, 2014 10:23:21 AM

Work Order ID: 114513

\*114513\*

Parent Item:

D3391-023

\*D3391-023\*

Parent Item Name: Mid Tube Assembly

**Start Date: 3/7/2014** 

**Required Date: 3/14/2014** 

Page 1

Start Qty: 1.00

Required Qty: 1.00

**Comments:** 

IPP A05.10.20New Issue

KJ/EC

IPP B06.02.10ECN773 dwg rev.D EC

EC

IPP C 07.03.20 rev F dwg IPP D 07.03.28 re-format

EC

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G | 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I | 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP

Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500+1-100		Manufactured	No			100	Each	85.0000	1	1	/ /		
*D2500-1-	100*								**	pc 11/	04/04		
1				<b>Location</b>		Loc	Oty	Loc Code		·	,		
				HALL (	82373 86065		85 24 61		<del>-</del>	(i)	- -		
93389-1		Manufactured	No		80003	140	Each	9.0000	1	1	_		
*D3389-1*									**				
i				Location	•	Loc	Oty	Loc Code					
;				LG C	113057		9 9				De	<u></u>	14-4-8 <u>86-14-04</u> 84-85
03681-1		Manufactured	No			160	Each	176.0000	. 5	5			
*D3681-1*									**				BE 14-04
Spacer				T 4*		Ŧ					$\mathcal{B}_{I}$	1488	84 x5
				Location	<u>l</u>	Loc	Oty	Loc Code					, )
i				LG001	100647		176		-		-		
					108647 109109		40 136		-		_		

Friday, March 07, 2014 10:23:21 AM

Work Order ID: 114513

Parent Item:

\*114513\* \*D3391-023\*

D3391-023

Parent Item Name: Mid Tube Assembly

**Start Date:** 3/7/2014

**Required Date: 3/14/2014** 

Start Qty: 1.00

2

Required Qty: 1.00

D3591-1

Bushing

Manufactured

Each

90.0000

Locatio	<u>on</u> .	Lo	c Qty	Loc Code		
FG			10	1) ian 1/		
	92873		10	13151916		<u> </u>
FP001			80			
	100699		5			
	107918		38			
	109107		37			
		230	Each	1,136.000	20	20

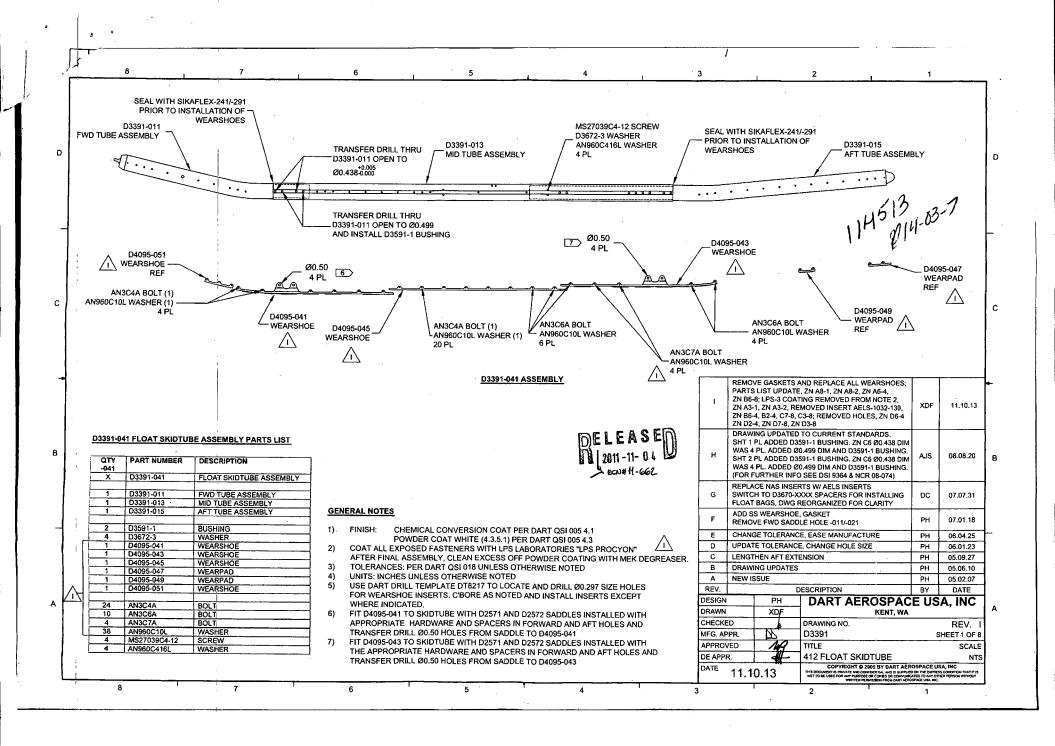
ALS4-1032-130

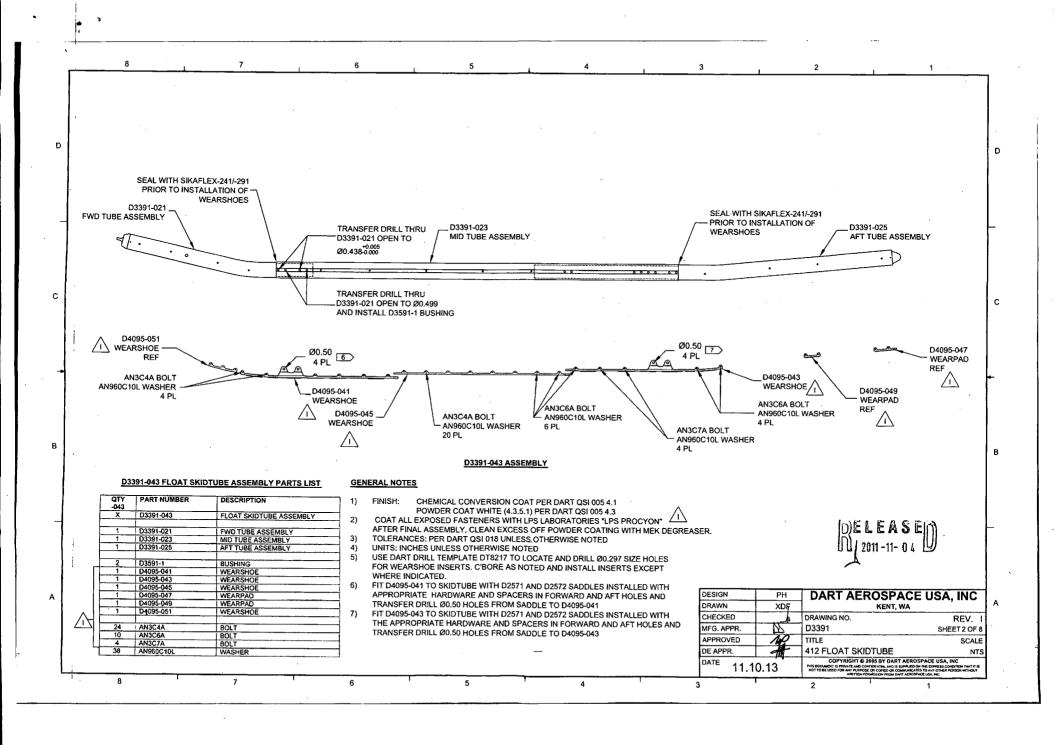
AELS4-1032-130 Purchased

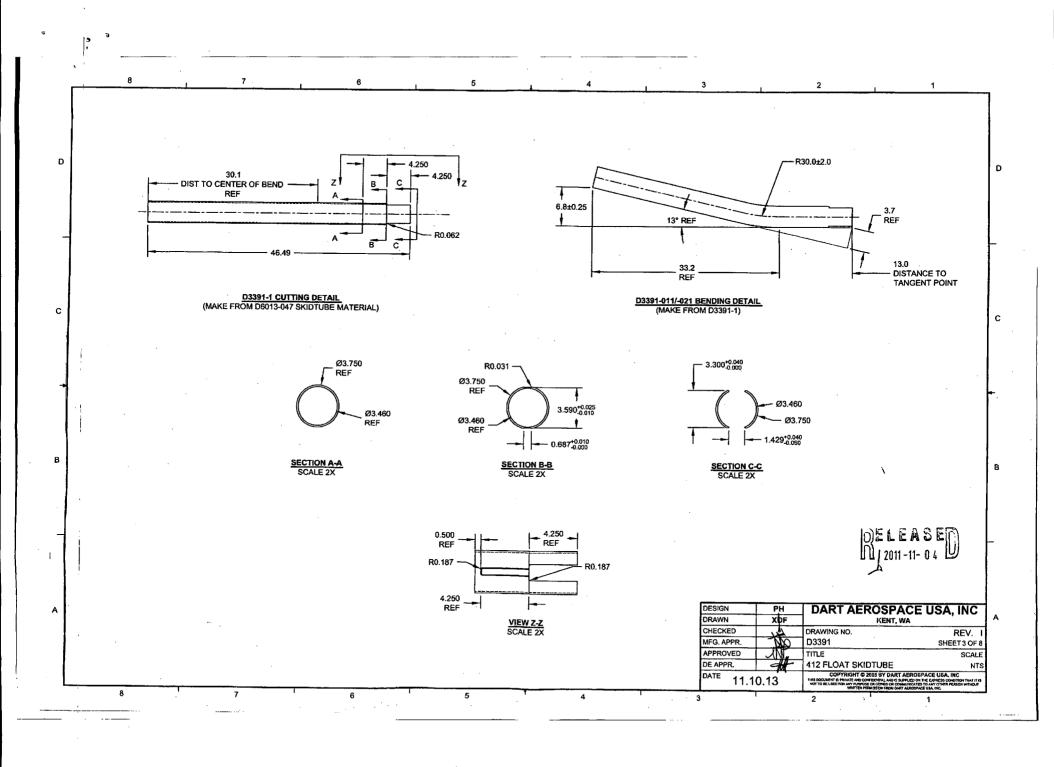
### \*ALS4-1032-130\*

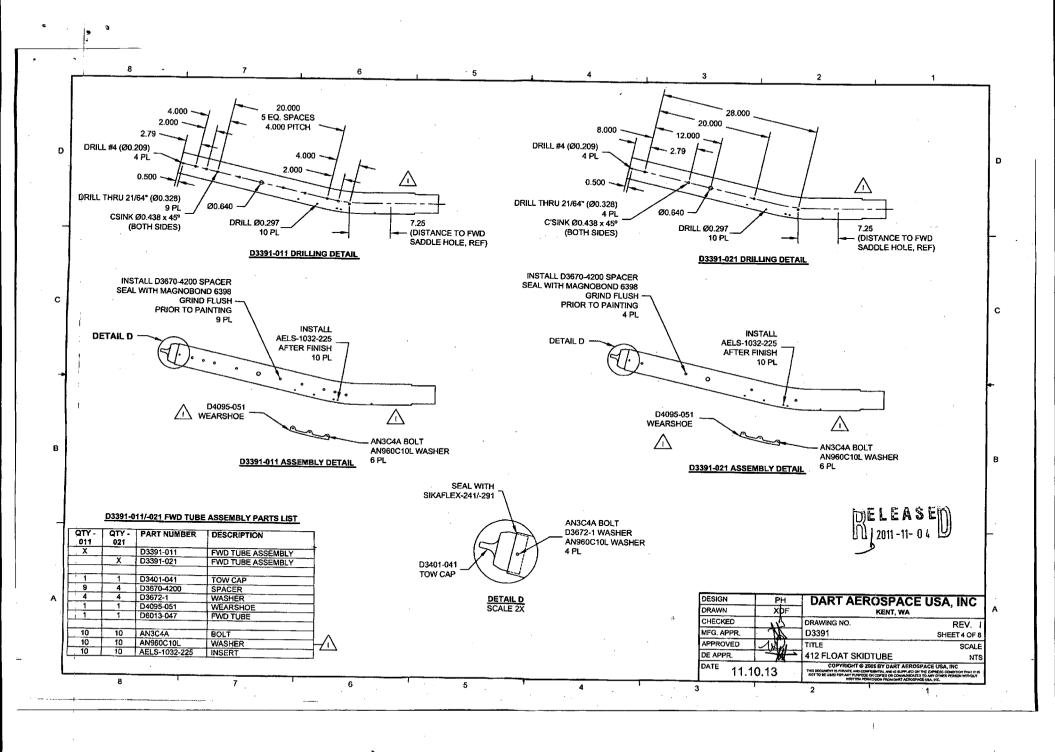
Rivnut

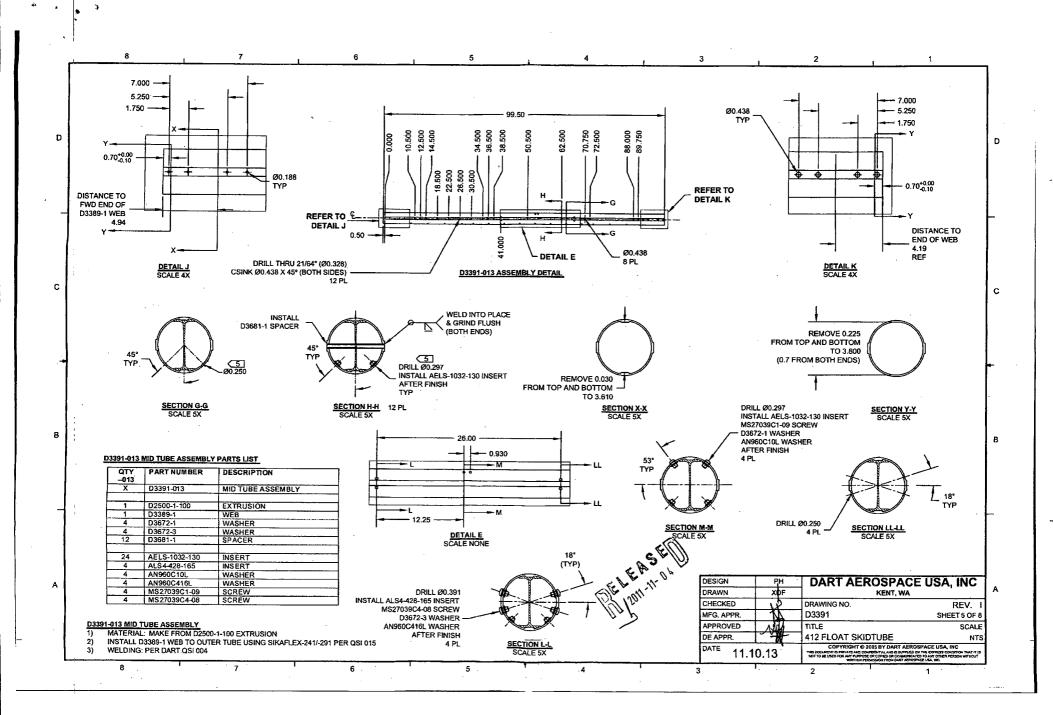
Location	Loc Qty	Loc Code	
ST279	1079	11120116	<u> </u>
M128179	122	M128649	
M128211	957		
st510	57		
M126109	57		

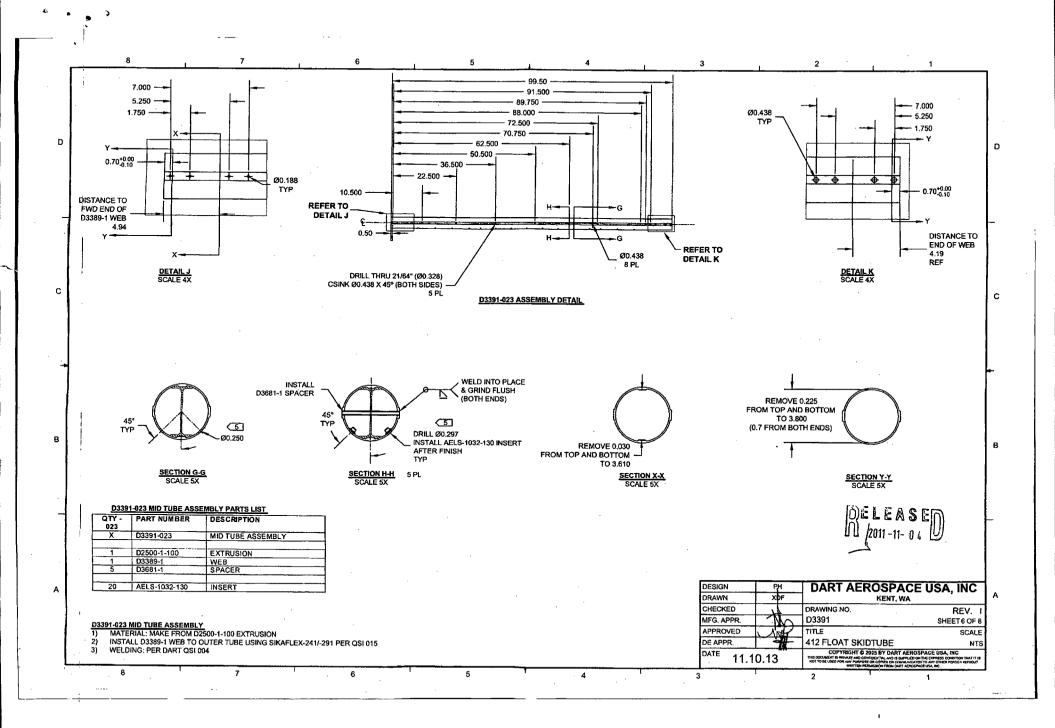


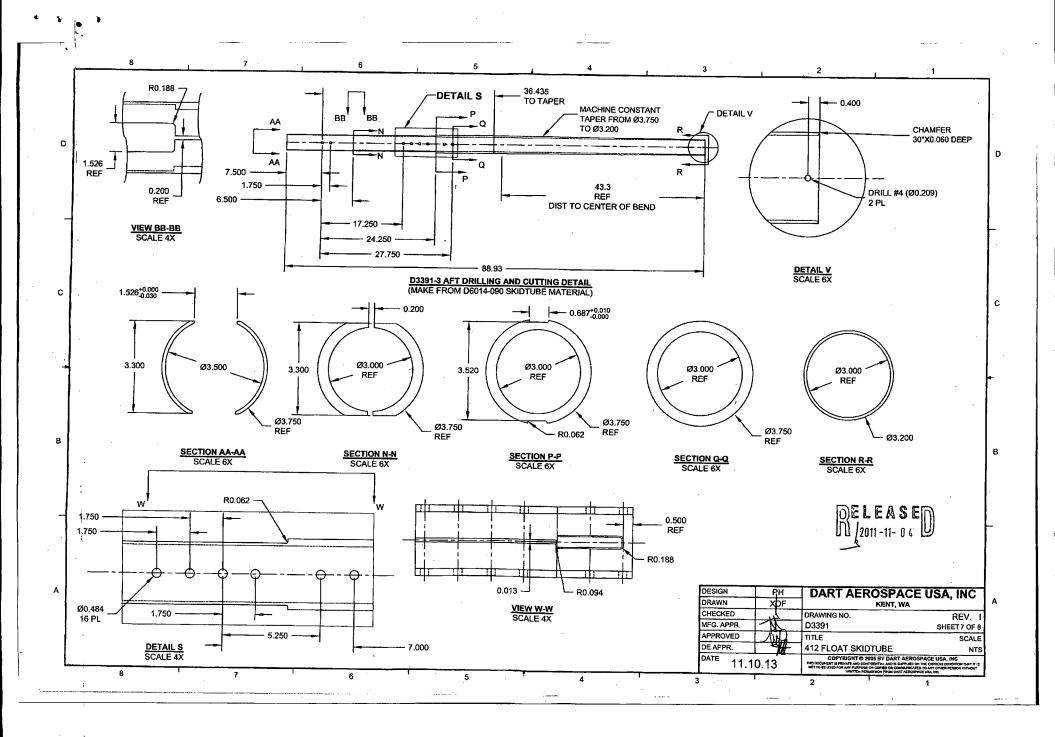


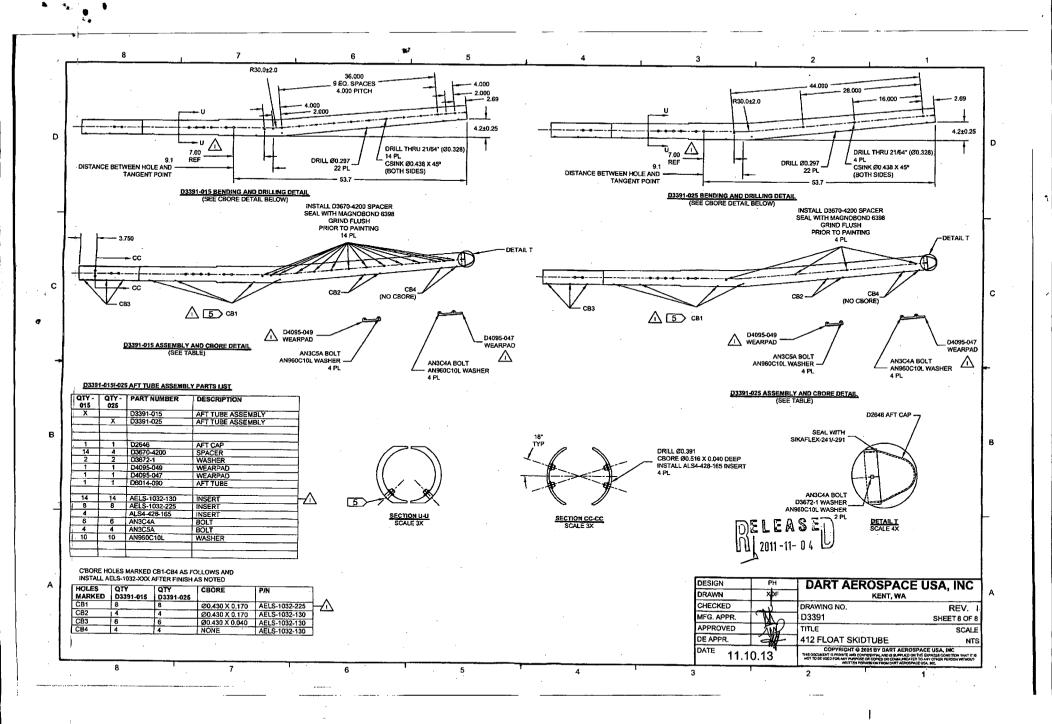












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